10/665,314

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PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JUL 02	LMEDLINE coverage updated
NEWS 3	JUL 02	SCISEARCH enhanced with complete author names
NEWS 4	JUL 02	CHEMCATS accession numbers revised
NEWS 5	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 6	JUL 16	CAplus enhanced with French and German abstracts
NEWS 7	JUL 18	CA/CAplus patent coverage enhanced
NEWS 8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9	JUL 30	USGENE now available on STN
NEWS 10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 11	AUG 06	BEILSTEIN updated with new compounds
NEWS 12	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 13	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS 14	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 15	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 16	AUG 27	USPATOLD now available on STN
NEWS 17	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 18	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 19	SEP 13	FORIS renamed to SOFIS
NEWS 20	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS 21	SEP 17	CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 22	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS 23	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 24	OCT 02	CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 12:55:29 ON 05 OCT 2007

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 12:55:41 ON 05 OCT 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4
DICTIONARY FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

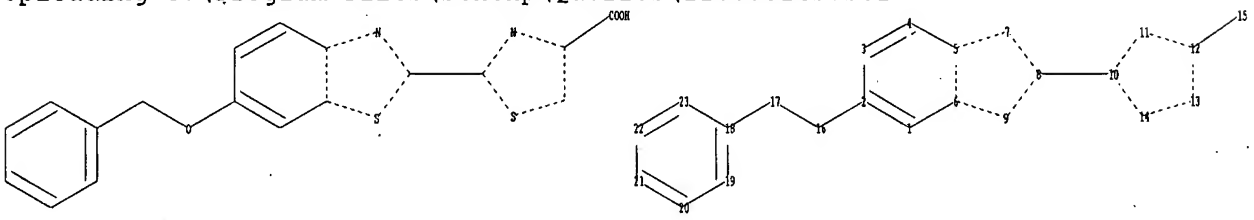
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\11665314s.str



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15 16 17
ring nodes :
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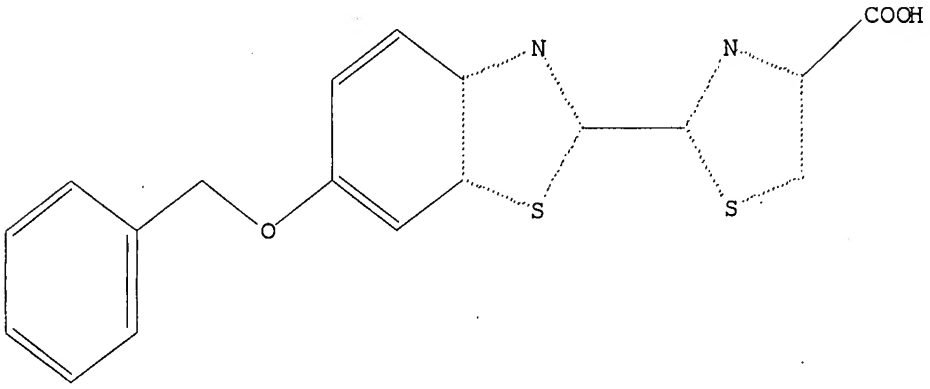
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14 18-19 18-23 19-20 20-21 21-22 22-23
exact/norm bonds :
1-2 1-6 2-3 2-16 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14 16-17
exact bonds :
8-10 12-15 17-18
normalized bonds :

18-19 18-23 19-20 20-21 21-22 22-23

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SCREEN SEARCH COMPLETED - 189 TO ITERATE

100.0% PROCESSED 189 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH **COMPLETE**
PROJECTED ITERATIONS: 2956 TO 4604
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 12:56:04 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4492 TO ITERATE

100.0% PROCESSED 4492 ITERATIONS 11 ANSWERS
SEARCH TIME: 00.00.01

L3 11 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 172.10 172.31

FILE 'CAPLUS' ENTERED AT 12:56:06 ON 05 OCT 2007

FILE COVERS 1907 - 5 Oct 2007 VOL 147 ISS 16
FILE LAST UPDATED: 4 Oct 2007 (20071004/ED)

=> s l3
L4 2 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1279865 CAPLUS
DOCUMENT NUMBER: 146:57589
TITLE: Luminogenic and fluorogenic compounds and methods to detect molecules or conditions
INVENTOR(S): Daily, William; Hawkins, Erika; Klaubert, Dieter; Liu, Jianquan; Meisenheimer, Poncho; Scurria, Michael; Shultz, John W.; Unch, James; Wood, Keith V.; Zhou, Wenhui; Valley, Michael P.; Cali, James J.
PATENT ASSIGNEE(S): Promega Corporation, USA
SOURCE: PCT Int. Appl., 328pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006130551	A2	20061207	WO 2006-US20731	20060530
WO 2006130551	A8	20070201		
WO 2006130551	A3	20070503		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
US 20070015790	A1	20070118	US 2006-444145	20060531
PRIORITY APPLN. INFO.:			US 2005-685957P P	20050531
			US 2005-693034P P	20050621
			US 2005-692925P P	20050622
			US 2006-790455P P	20060407

OTHER SOURCE(S): MARPAT 146:57589

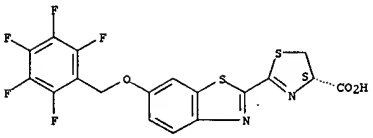
AB A method to detect the presence or amount of at least one mol. in a sample which employs a derivative of luciferin or a derivative of a fluorophore is provided.

IT 916661-52-4 916661-53-5 916661-59-1
916661-63-7
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(luminogenic and fluorogenic compds. and methods to detect mols. or conditions)

RN 916661-52-4 CAPLUS
CN 4-Thiazolecarboxylic acid, 4,5-dihydro-2-[6-[(2,3,4,5,6-pentafluorophenyl)methoxy]-2-benzothiazolyl]-, (4S)- (CA INDEX NAME)

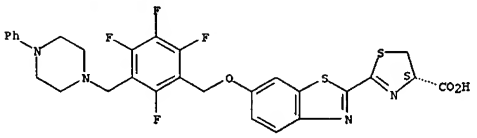
Absolute stereochemistry.

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 916661-53-5 CAPLUS
CN 4-Thiazolecarboxylic acid, 4,5-dihydro-2-[6-[[2,3,4,6-tetrafluoro-5-[(4-phenyl-1-piperazinyl)methyl]phenyl]methoxy]-2-benzothiazolyl]-, (4S)- (CA INDEX NAME)

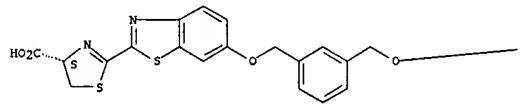
Absolute stereochemistry.



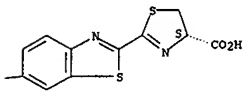
RN 916661-59-1 CAPLUS
CN 4-Thiazolecarboxylic acid, 2,2'-[1,3-phenylenebis(methyleneoxy-6,2-benzothiazolediyl)]bis[4,5-dihydro-, (4S,4'S)- (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



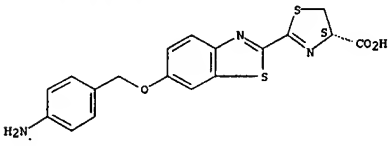
PAGE 1-B



L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 916661-63-7 CAPLUS
CN 4-Thiazolecarboxylic acid, 2-[6-[(4-aminophenyl)methoxy]-2-benzothiazolyl]-4,5-dihydro-, (4S)- (CA INDEX NAME)

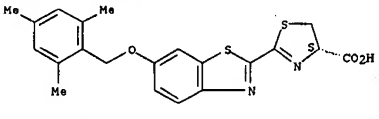
Absolute stereochemistry.



IT 916660-57-6P 916661-30-8P
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
(luminogenic and fluorogenic compds. and methods to detect mols. or conditions)

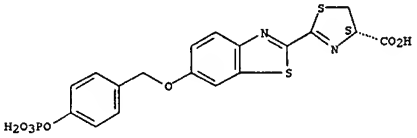
RN 916660-57-6 CAPLUS
CN 4-Thiazolecarboxylic acid, 4,5-dihydro-2-[6-[(2,4,6-trimethylphenyl)methoxy]-2-benzothiazolyl]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 916661-30-8 CAPLUS
CN 4-Thiazolecarboxylic acid, 4,5-dihydro-2-[6-[[4-(phosphonooxy)phenyl]methoxy]-2-benzothiazolyl]-, ammonium salt (1:?), (4S)- (CA INDEX NAME)

Absolute stereochemistry.



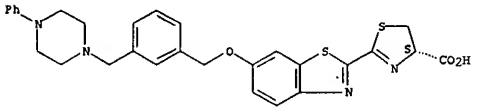
●x NH3

L4 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IT 916660-53-2P 916660-55-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(luminogenic and fluorogenic compds. and methods to detect mols. or conditions)

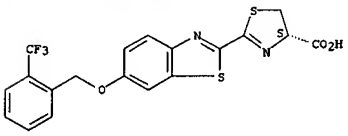
RN 916660-53-2 CAPLUS
CN 4-Thiazolecarboxylic acid, 4,5-dihydro-2-[6-[[3-[(4-phenyl-1-piperazinyl)methyl]phenyl]methoxy]-2-benzothiazolyl]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 916660-55-4 CAPLUS
CN 4-Thiazolecarboxylic acid, 4,5-dihydro-2-[6-[[2-(trifluoromethyl)phenyl]methoxy]-2-benzothiazolyl]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:270174 CAPLUS
DOCUMENT NUMBER: 140:299425
TITLE: Luminescent cytochrome P 450 assay using luciferase, luciferin derivatives and pyrophosphatase, and drug screening applications
INVENTOR(S): Cali, James J.; Klaubert, Dieter; Daily, William; Ho, Samuel Kin Sang; Frackman, Susan; Hawkins, Erika; Wood, Keith V.
PATENT ASSIGNEE(S): Promega Corporation, USA
SOURCE: PCT Int. Appl., 130 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004027378	A2	20040401	WO 2003-US29078	20030916
WO 2004027378	A3	20041125		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2497560	A1	20040401	CA 2003-2497560	20030916
AU 2003267245	A1	20040408	AU 2003-267245	20030916
AU 2003267245	B2	20070712		
EP 1546162	A2	20050629	EP 2003-749715	20030916
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006508339	T	20060309	JP 2004-537859	20030916
US 2004171099	A1	20040902	US 2003-665314	20030919
PRIORITY APPLN. INFO.:			US 2002-412254P P	20020920
			US 2003-483309P P	20030627
			WO 2003-US29078 W	20030916

OTHER SOURCE(S): MARPAT 140:299425

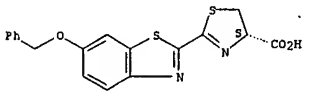
AB The present invention provides methods, compns., substrates, and kits useful for analyzing the metabolic activity in cells, tissue, and animals and for screening test compds. for their effect on cytochrome P 450 activity. In particular, a one-step and two-step methods using luminogenic mols., e.g. luciferin or coelenterazines, that are cytochrome P 450 substrates and that are also bioluminescent enzyme, e.g., luciferase, pro-substrates are provided. Upon addition of the luciferin derivative or other luminogenic mol. into a P 450 reaction, the P 450 enzyme metabolizes the mol. into a bioluminescent enzyme substrate, e.g., luciferin and/or luciferin derivative metabolite, in a P 450 reaction. The resulting metabolite(s) serves as a substrate of the bioluminescent enzyme, e.g., luciferase, in a second light-generating reaction. Luminescent cytochrome P 450 assays with low background signals and high sensitivity are disclosed and isoform selectivity is demonstrated. The present invention also provides an improved method for performing luciferase reactions which employs added pyrophosphatase to remove inorg. pyrophosphate, a luciferase inhibitor which may be present in the reaction mixture as a contaminant or may be generated during the reaction. The present method further provides a method for stabilizing and prolonging the luminescent signal in a luciferase-based assay using luciferase stabilizing agents such as reversible luciferase inhibitors.

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IT 676460-32-5P 676460-33-6P
RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(luminescent cytochrome P 450 assay using luciferase, luciferin derivs. and pyrophosphatase, and drug screening applications)

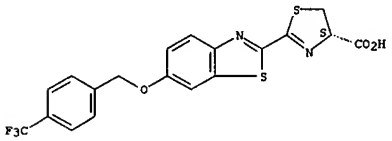
RN 676460-32-5 CAPLUS
CN 4-Thiazolecarboxylic acid, 4,5-dihydro-2-[6-(phenylmethoxy)-2-benzothiazolyl]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.



RN 676460-33-6 CAPLUS
CN 4-Thiazolecarboxylic acid, 4,5-dihydro-2-[6-[[4-(trifluoromethyl)phenyl]methoxy]-2-benzothiazolyl]-, (4S)- (CA INDEX NAME)

Absolute stereochemistry.



=> fil reg
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 11.01 | 183.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION
CA SUBSCRIBER PRICE | -1.56 | -1.56

FILE 'REGISTRY' ENTERED AT 12:56:18 ON 05 OCT 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4
DICTIONARY FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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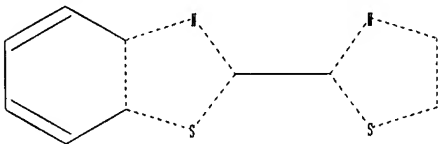
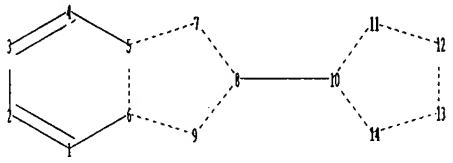




ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
8-10
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14

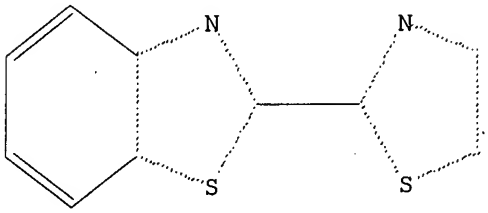
exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14

exact bonds :
8-10

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom

L5 STRUCTURE UPLOADED

=> d
L5 HAS NO ANSWERS
L5 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l5
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SAMPLE SCREEN SEARCH COMPLETED - 46 TO ITERATE

100.0% PROCESSED 46 ITERATIONS 37 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 514 TO 1326
PROJECTED ANSWERS: 376 TO 1104

L6 37 SEA SSS SAM L5

=> s l5 full
FULL SEARCH INITIATED 12:57:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 818 TO ITERATE

100.0% PROCESSED 818 ITERATIONS 600 ANSWERS
SEARCH TIME: 00.00.01

L7 600 SEA SSS FUL L5

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 172.10 355.42

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE 0.00 -1.56

FILE 'CAPLUS' ENTERED AT 12:57:07 ON 05 OCT 2007

FILE COVERS 1907 - 5 Oct 2007 VOL 147 ISS 16
FILE LAST UPDATED: 4 Oct 2007 (20071004/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply. They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l7
L8 1155 L7

=> FIL REG

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.35	357.77

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.56

FILE 'REGISTRY' ENTERED AT 13:00:21 ON 05 OCT 2007
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STRUCTURE FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4
DICTIONARY FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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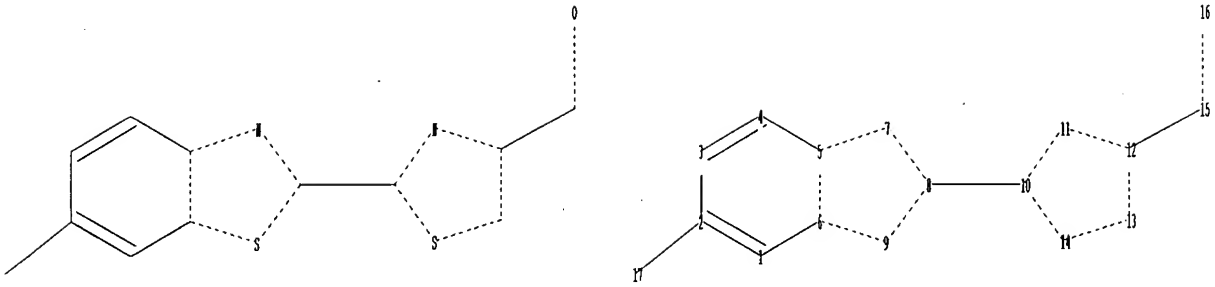
http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10665314b.str



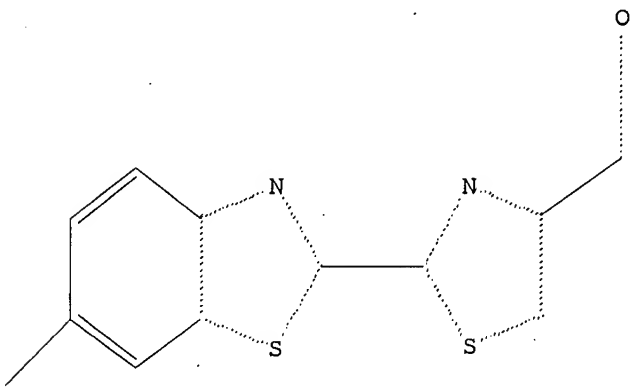
chain nodes :
15 16 17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
2-17 8-10 12-15 15-16
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14

exact/norm bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14
15-16
exact bonds :
2-17 8-10 12-15

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS

L9 STRUCTURE UPLOADED

=> d
L9 HAS NO ANSWERS
L9 STR



Structure attributes must be viewed using STN Express query preparation.

```
=> s l9
SAMPLE SEARCH INITIATED 13:00:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -        3 TO ITERATE

100.0% PROCESSED         3 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            3 TO      163
PROJECTED ANSWERS:               0 TO        0

L10             0 SEA SSS SAM L9

=> s l9 full
FULL SEARCH INITIATED 13:00:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -       58 TO ITERATE

100.0% PROCESSED        58 ITERATIONS                                  2 ANSWERS
SEARCH TIME: 00.00.01

L11             2 SEA SSS FUL L9

=> fil caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   172.10     529.87

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -1.56

FILE 'CAPLUS' ENTERED AT 13:00:45 ON 05 OCT 2007
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FILE COVERS 1907 - 5 Oct 2007  VOL 147 ISS 16
FILE LAST UPDATED: 4 Oct 2007  (20071004/ED)

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They are available for your review at:

http://www.cas.org/infopolicy.html

=> s l11
```

L12 1 L11

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.47	530.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.56

FILE 'REGISTRY' ENTERED AT 13:01:11 ON 05 OCT 2007
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STRUCTURE FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4
DICTIONARY FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
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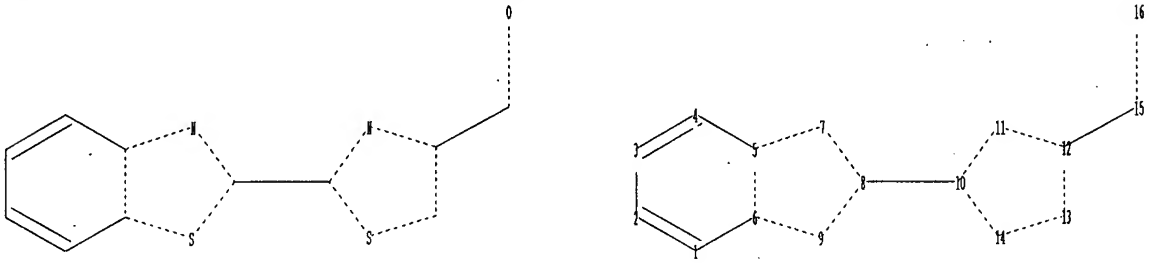


chain nodes :
15 16
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
8-10 12-15 15-16
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14

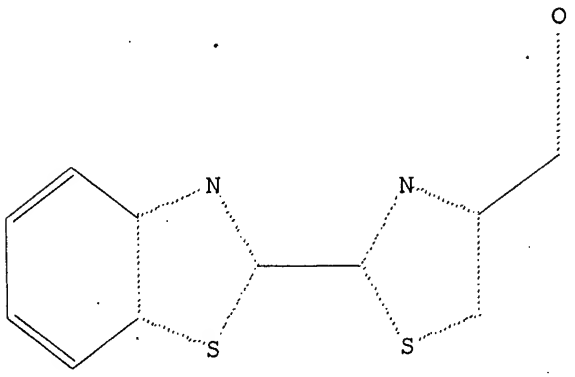
exact/norm bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14
15-16
exact bonds :
8-10 12-15

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS

L13 STRUCTURE UPLOADED

=> d
L13 HAS NO ANSWERS
L13 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l13
SAMPLE SEARCH INITIATED 13:01:40 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 23 TO ITERATE

100.0% PROCESSED 23 ITERATIONS 21 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 173 TO 747
PROJECTED ANSWERS: 146 TO 694

L14 21 SEA SSS SAM L13

=> s l13 full
FULL SEARCH INITIATED 13:01:43 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 388 TO ITERATE

100.0% PROCESSED 388 ITERATIONS 320 ANSWERS
SEARCH TIME: 00.00.01

L15 320 SEA SSS FUL L13

=> fil caplus
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 172.10 | 702.44

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION
CA SUBSCRIBER PRICE | 0.00 | -1.56

FILE 'CAPLUS' ENTERED AT 13:01:45 ON 05 OCT 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
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FILE COVERS 1907 - 5 Oct 2007 VOL 147 ISS 16
FILE LAST UPDATED: 4 Oct 2007 (20071004/ED)

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=> s l15
L16 920 L15

=> fil reg
COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION
FULL ESTIMATED COST | 0.47 | 702.91

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION
CA SUBSCRIBER PRICE | 0.00 | -1.56

FILE 'REGISTRY' ENTERED AT 13:02:30 ON 05 OCT 2007
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STRUCTURE FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4
DICTIONARY FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4

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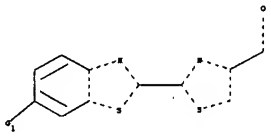
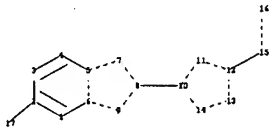
http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10665314d.str





chain nodes :
15 16 17
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
2-17 8-10 12-15 15-16
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14

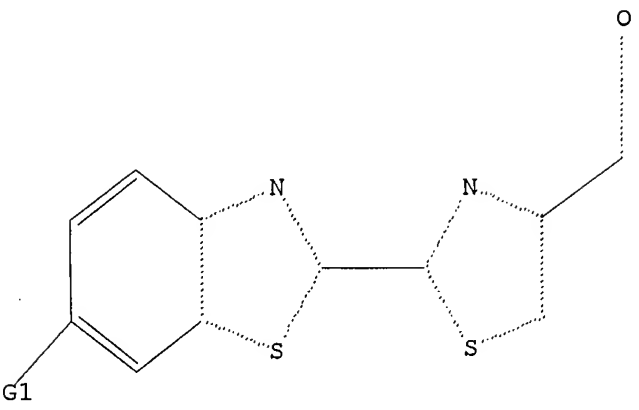
exact/norm bonds :
1-2 1-6 2-3 2-17 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13
13-14 15-16
exact bonds :
8-10 12-15

G1:Cb,Cy,Hy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 17:CLASS

L17 STRUCTURE UPLOADED

=> d
L17 HAS NO ANSWERS
L17 STR



G1 Cb,Cy,Hy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l17
SAMPLE SEARCH INITIATED 13:02:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 23 TO ITERATE

100.0% PROCESSED 23 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 173 TO 747
PROJECTED ANSWERS: 0 TO 0

L18 0 SEA SSS SAM L17

=> s l17 full
FULL SEARCH INITIATED 13:02:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 388 TO ITERATE

100.0% PROCESSED 388 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

L19 4 SEA SSS FUL L17

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	875.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.56

FILE 'CAPLUS' ENTERED AT 13:02:54 ON 05 OCT 2007
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FILE COVERS 1907 - 5 Oct 2007 VOL 147 ISS 16
FILE LAST UPDATED: 4 Oct 2007 (20071004/ED)

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http://www.cas.org/infopolicy.html

=> s l19
L20 3 L19

=> d ibib abs hitstr tot

L20 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:722833 CAPLUS
DOCUMENT NUMBER: 141:217988
TITLE: Signalling compounds for use in methods of detecting hydrogen peroxide
INVENTOR(S): Akhavan-Tafti, Hashem; Eickholt, Robert A.; Lauwers, Kenneth S.; Handley, Richard S.
PATENT ASSIGNEE(S): Lumigen, Inc., USA
SOURCE: U.S. Pat. Appl. Publ., 33 pp., Cont.-in-part of U.S. Ser. No. 371,053.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004171098	A1	20040902	US 2003-600928	20030620
US 6919463	B2	20050719		
US 2004166539	A1	20040826	US 2003-371053	20030220
WO 2004074810	A2	20040902	WO 2004-US2020	20040217
WO 2004074810	A3	20050825		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1594855	A2	20051116	EP 2004-711799	20040217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006520465	T	20060907	JP 2006-502994	20040217

PRIORITY APPLN. INFO.: US 2003-371053 A2 20030220
US 2003-600928 A 20030620
WO 2004-US2020 W 20040217

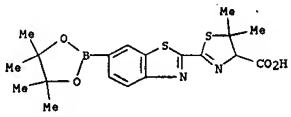
OTHER SOURCE(S): MARPAT 141:217988

AB Compds. useful for detecting a source of hydrogen peroxide are disclosed wherein a signalling compound of the formula: Sig-B-(OR5)(OR6) is reacted with peroxide. Sig is an aromatic or heteroarom. ring group, B is a boron atom, and R5 and R6 are independently selected from hydrogen and lower alkyl groups and can be joined together as a straight or branched alkylene chain forming a five or six-membered ring. A detectable product compound Sig-OH is produced and detected by measuring color, fluorescence, chemiluminescence, or bioluminescence. The signalling compound itself does not possess the detectable property or does so only to a very weak degree. The compds. can be used for detection in assays for peroxide or peroxide-producing enzymes and in assays employing enzyme-labeled specific binding pairs.

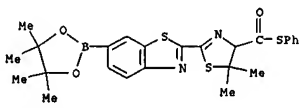
IT 741253-14-5P 741253-17-8P
RL: ARG (Analytical reagent use); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(methods and compds. for detection of hydrogen peroxide)

RN 741253-14-5 CAPLUS
CN 4-Thiazolecarboxylic acid, 4,5-dihydro-5,5-dimethyl-2-[6-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-2-benzothiazolyl]- (CA INDEX NAME)

L20 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 741253-17-8 CAPLUS
CN 4-Thiazolecarbothioic acid, 4,5-dihydro-5,5-dimethyl-2-[6-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-2-benzothiazolyl]-, S-phenyl ester (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L20 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:701711 CAPLUS
DOCUMENT NUMBER: 141:217987
TITLE: Signalling compounds and methods for detecting hydrogen peroxide
INVENTOR(S): Akhavan-Tafti, Hashem; Eickholt, Robert A.; Lauwers, Kenneth S.; Handley, Richard S.
PATENT ASSIGNEE(S): USA
SOURCE: U.S. Pat. Appl. Publ., 32 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004166539	A1	20040826	US 2003-371053	20030220
US 2004171098	A1	20040902	US 2003-600928	20030620
US 6919463	B2	20050719		
WO 2004074810	A2	20040902	WO 2004-US2020	20040217
WO 2004074810	A3	20050825		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1594855	A2	20051116	EP 2004-711799	20040217
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006520465	T	20060907	JP 2006-502994	20040217

PRIORITY APPLN. INFO.: US 2003-371053 A2 20030220
US 2003-600928 A 20030620
WO 2004-US2020 W 20040217

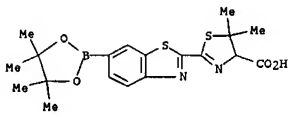
OTHER SOURCE(S): MARPAT 141:217987

AB Methods and compound useful for detecting a source of hydrogen peroxide are disclosed wherein a signalling compound of the formula: Sig-B-(OR)2 is reacted with peroxide. Sig is a non-polymeric organic group, B is a boron atom, and each R is independently selected from hydrogen, alkyl and aryl groups and can be joined together as a straight or branched alkylene chain forming a ring or as an aromatic ring. A detectable product compound Sig-OH or
Sig-O - is produced and detected by measuring color, absorbance, fluorescence, chemiluminescence, or bioluminescence. The signalling compound itself does not possess the detectable property or does so only to a very weak degree. The methods can be used as a detectable signal in assays for peroxide or peroxide-producing enzymes and in assays employing enzyme-labeled specific binding pairs.

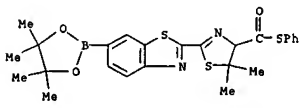
IT 741253-14-5P 741253-17-8P
RL: ARG (Analytical reagent use); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)
(methods and compds. for detection of hydrogen peroxide)

RN 741253-14-5 CAPLUS
CN 4-Thiazolecarboxylic acid, 4,5-dihydro-5,5-dimethyl-2-[6-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-2-benzothiazolyl]- (CA INDEX NAME)

L20 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 741253-17-8 CAPLUS
CN 4-Thiazolecarbothioic acid, 4,5-dihydro-5,5-dimethyl-2-[6-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-2-benzothiazolyl]-, S-phenyl ester (CA INDEX NAME)

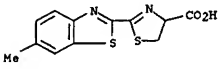


L20 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1970:18740 CAPLUS
DOCUMENT NUMBER: 72:18740
TITLE: Substrate-binding properties of firefly luciferase. I. Luciferin-binding site
AUTHOR(S): Denburg, Jeffrey; Lee, Reiko Takasaka; McElroy, W. D.
CORPORATE SOURCE: Johns Hopkins Univ., Baltimore, MD, USA
SOURCE: Archives of Biochemistry and Biophysics (1969), 134(2), 381-94
CODEN: ABBIA4; ISSN: 0003-9861
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Various techniques were used for characterization of the luciferin-binding site of the firefly luciferase. Both equilibrium-dialysis and fluorescence-titration techniques revealed the existence of 2 identical, noninteracting binding sites for dehydroluciferi n, which is a potent competitive inhibitor. Kinetically obtained dissociation consts. of various luciferin analogs and other competitive inhibitors revealed that most of the binding energies of these compds. residue in the backbone ring structure and that various substituents did not influence the binding to any significant extent. Exceptions to this are the Me group at the 6-position of the benzothiazole ring and the carboxylic acid group. The binding energy of the luciferin backbone structure to the luciferin-binding site is 7.5 kcal/mole. Two parts of the luciferin mol., the benzothiazole ring portion and the thiazoline ring portion, contribute 6.0 kcal/mole and 1.5 kcal/mole, resp., to the binding energy. Comparison of the binding energies of several heterocyclic compds. structurally related to benzothiazole suggests that the N atom of the benzothiazole ring may be important in orienting the compound to a fixed position in the luciferin-binding site. The binding studies with N-ethylmaleimide-inactivated luciferase gave further evidence that the 2 SH groups essential for the luciferase activity are located at the luciferin binding sites, most likely 1 at each binding site. Excitation spectra of luciferase-bound dehydroluciferin indicated that the phenolic group of dehydroluciferin is in unionized form on the enzyme even in a medium of high pH. This effect and a large enhancement of the blue fluorescence peak at 440 mμ suggest the environment of luciferin-binding site to be quite hydrophobic, in agreement with earlier observations.

IT 23815-78-3
RL: PROC (Process)
(luciferase binding of)

RN 23815-78-3 CAPLUS
CN 2-Thiazoline-4-carboxylic acid, 2-(6-methyl-2-benzothiazolyl)- (8CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	16.28	891.29

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-2.34	-3.90

STN INTERNATIONAL LOGOFF AT 13:03:21 ON 05 OCT 2007

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LOGINID:SSSPTASEL1626

PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * * * * * * Welcome to STN International * * * * * * * * * *

NEWS 1		Web Page for STN Seminar Schedule - N. America
NEWS 2	JUL 02	LMEDLINE coverage updated
NEWS 3	JUL 02	SCISEARCH enhanced with complete author names
NEWS 4	JUL 02	CHEMCATS accession numbers revised
NEWS 5	JUL 02	CA/CAplus enhanced with utility model patents from China
NEWS 6	JUL 16	CAplus enhanced with French and German abstracts
NEWS 7	JUL 18	CA/CAplus patent coverage enhanced
NEWS 8	JUL 26	USPATFULL/USPAT2 enhanced with IPC reclassification
NEWS 9	JUL 30	USGENE now available on STN
NEWS 10	AUG 06	CAS REGISTRY enhanced with new experimental property tags
NEWS 11	AUG 06	BEILSTEIN updated with new compounds
NEWS 12	AUG 06	FSTA enhanced with new thesaurus edition
NEWS 13	AUG 13	CA/CAplus enhanced with additional kind codes for granted patents
NEWS 14	AUG 20	CA/CAplus enhanced with CAS indexing in pre-1907 records
NEWS 15	AUG 27	Full-text patent databases enhanced with predefined patent family display formats from INPADOCDB
NEWS 16	AUG 27	USPATOLD now available on STN
NEWS 17	AUG 28	CAS REGISTRY enhanced with additional experimental spectral property data
NEWS 18	SEP 07	STN AnaVist, Version 2.0, now available with Derwent World Patents Index
NEWS 19	SEP 13	FORIS renamed to SOFIS
NEWS 20	SEP 13	INPADOCDB enhanced with monthly SDI frequency
NEWS 21	SEP 17	CA/CAplus enhanced with printed CA page images from 1967-1998
NEWS 22	SEP 17	CAplus coverage extended to include traditional medicine patents
NEWS 23	SEP 24	EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 24	OCT 02	CA/CAplus enhanced with pre-1907 records from Chemisches Zentralblatt

NEWS EXPRESS 19 SEPTEMBER 2007: CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 SEPTEMBER 2007.

NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
NEWS IPC8	For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

* * * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:21:09 ON 05 OCT 2007

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 14:21:18 ON 05 OCT 2007

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4
DICTIONARY FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

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REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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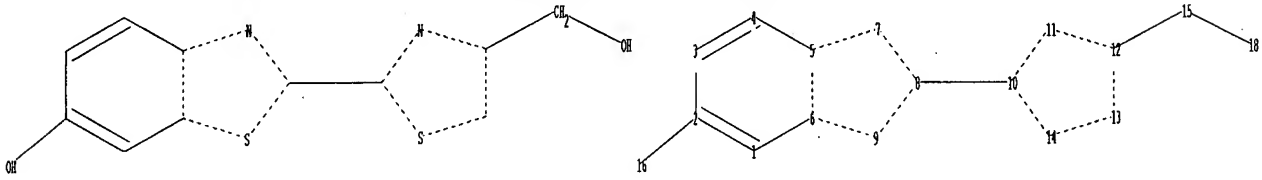
Uploading C:\Program Files\Stnexp\Queries\10665314e.str



chain nodes :
15 16 18
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
2-16 8-10 12-15 15-18
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14

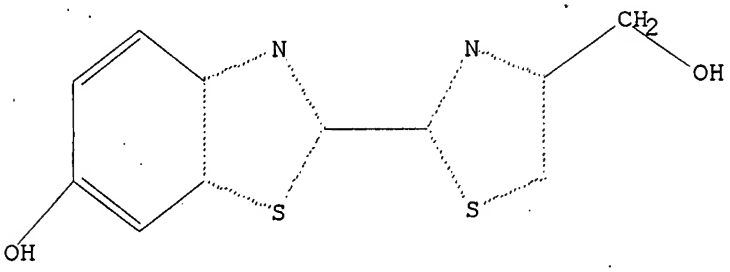
exact/norm bonds :
1-2 1-6 2-3 2-16 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14
exact bonds :
8-10 12-15 15-18

G1:Cb,Cy,Hy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 18:CLASS

L1 STRUCTURE UPLOADED

=> d
L1 HAS NO ANSWERS
L1 STR



G1 Cb,Cy,Hy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 14:21:35 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 147 TO ITERATE

100.0% PROCESSED 147 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2213 TO 3667
PROJECTED ANSWERS: 1 TO 80

L2 1 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 14:21:38 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3249 TO ITERATE

100.0% PROCESSED 3249 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L3 2 SEA SSS FUL L1

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 172.10 172.31

FILE 'CAPLUS' ENTERED AT 14:21:40 ON 05 OCT 2007

FILE COVERS 1907 - 5 Oct 2007 VOL 147 ISS 16
FILE LAST UPDATED: 4 Oct 2007 (20071004/ED)

=> s l3
L4 5 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1279865 CAPLUS
DOCUMENT NUMBER: 146:57589
TITLE: Luminogenic and fluorogenic compounds and methods to detect molecules or conditions
INVENTOR(S): Daily, William; Hawkins, Erika; Klaubert, Dieter; Liu, Jianquan; Meisenheimer, Poncho; Scurria, Michael; Shultz, John W.; Unch, James; Wood, Keith V.; Zhou, Wenhui; Valley, Michael P.; Cali, James J.
PATENT ASSIGNEE(S): Promega Corporation, USA
SOURCE: PCT Int. Appl., 328pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006130551	A2	20061207	WO 2006-US20731	20060530
WO 2006130551	A8	20070201		
WO 2006130551	A3	20070503		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AP, EA, EP, OA				
US 2007015790	A1	20070118	US 2006-444145	20060531

PRIORITY APPLN. INFO.:

US 2005-685957P	P	20050531
US 2005-693034P	P	20050621
US 2005-692925P	P	20050622
US 2006-790455P	P	20060407

OTHER SOURCE(S): MARPAT 146:57589

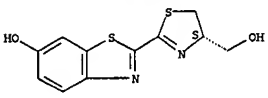
AB A method to detect the presence or amount of at least one mol. in a sample which employs a derivative of luciferin or a derivative of a fluorophore is provided.

IT 676460-20-1
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(luminogenic and fluorogenic compds. and methods to detect mols. or conditions)

RN 676460-20-1 CAPLUS

CN 6-Benzothiazolol, 2-[(4S)-4,5-dihydro-4-(hydroxymethyl)-2-thiazolyl]- (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:270174 CAPLUS
DOCUMENT NUMBER: 140:299425
TITLE: Luminescent cytochrome P 450 assay using luciferase, luciferin derivatives and pyrophosphatase, and drug screening applications
INVENTOR(S): Cali, James J.; Klaubert, Dieter; Daily, William; Ho, Samuel Kin Sang; Frackman, Susan; Hawkins, Erika; Wood, Keith V.
PATENT ASSIGNEE(S): Promega Corporation, USA
SOURCE: PCT Int. Appl., 130 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004027378	A2	20040401	WO 2003-US29078	20030916
WO 2004027378	A3	20041125		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2497560	A1	20040401	CA 2003-2497560	20030916
AU 2003267245	A1	20040408	AU 2003-267245	20030916
AU 2003267245	B2	20070712		
EP 1546162	A2	20050629	EP 2003-749715	20030916
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
JP 2006508339	T	20060309	JP 2004-537859	20030916
US 2004171099	A1	20040902	US 2003-665314	20030919

PRIORITY APPLN. INFO.:

US 2002-412254P	P	20020920
US 2003-483309P	P	20030627
WO 2003-US29078	W	20030916

OTHER SOURCE(S): MARPAT 140:299425

AB The present invention provides methods, compns., substrates, and kits useful for analyzing the metabolic activity in cells, tissue, and animals and for screening test compds. for their effect on cytochrome P 450 activity. In particular, a one-step and two-step methods using luminogenic mols., e.g. luciferin or coelenterazines, that are cytochrome P 450 substrates and that are also bioluminescent enzyme, e.g., luciferase, pro-substrates are provided. Upon addition of the luciferin derivative or other luminogenic mol. into a P 450 reaction, the P 450 enzyme metabolizes the mol. into a bioluminescent enzyme substrate, e.g., luciferin and/or luciferin derivative metabolite, in a P 450 reaction. The resulting metabolite(s) serves as a substrate of the bioluminescent enzyme, e.g., luciferase, in a second light-generating reaction. Luminescent cytochrome P 450 assays with low background signals and high sensitivity are disclosed and isoform selectivity is demonstrated. The present invention also provides an improved method for performing luciferase reactions which employs added pyrophosphatase to remove inorg. pyrophosphate, a luciferase inhibitor which may be present in the reaction mixture as a contaminant or may be generated during the reaction. The present method further provides a method for stabilizing and prolonging the luminescent signal in a luciferase-based assay using luciferase stabilizing agents such as reversible luciferase inhibitors.

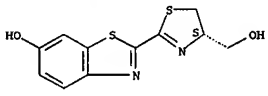
L4 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

IT 676460-20-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 2-cyanobenzothiazole derivs.; luminescent cytochrome P 450 assay using luciferase, luciferin derivs. and pyrophosphatase, and drug screening applications)

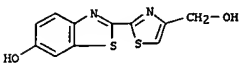
RN 676460-20-1 CAPLUS

CN 6-Benzothiazolol, 2-[(4S)-4,5-dihydro-4-(hydroxymethyl)-2-thiazolyl]- (CA INDEX NAME)

Absolute stereochemistry.

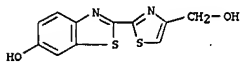


L4 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1997:763556 CAPLUS
DOCUMENT NUMBER: 128:99275
TITLE: Structure of the catalytic site of firefly luciferase and bioluminescence color
AUTHOR(S): Brovko, L. Yu.; Dementieva, E. I.; Ugarova, N. N.
CORPORATE SOURCE: Dep. Chem., Lomonosov Moscow State Univ., Moscow, 119899, Russia
SOURCE: Bioluminescence and Chemiluminescence: Molecular Reporting with Photons, Proceedings of the International Symposium on Bioluminescence and Chemiluminescence, 9th, Woods Hole, Mass., Oct. 4-8, 1996 (1997), Meeting Date 1996, 206-211. Editor(s): Hastings, J. W.; Kricka, L. J.; Stanley, P. E. Wiley: Chichester, UK.
CODEN: 65JYAO
DOCUMENT TYPE: Conference
LANGUAGE: English
AB Time-resolved fluorescence was used to examine the dynamic behavior of active site Trp in luciferase from Photinus pyralis and Luciola mingrelica. P. pyralis luciferase exhibited a more rigid protein structure consistent with its higher thermostability. Fluorescence spectra of luciferin (phenolate form) and dehydroluciferol in different organic solvents together with the spectral characteristics of native bioluminescence and protein structure were analyzed to establish a correlation between active site microenvironment and bioluminescence color. The authors conclude that bioluminescence color is determined by both active site polarizability of the active site. The ability of nearby residues to rearrange around the emitter is also an important factor.
IT 43094-08-2, Dehydroluciferol
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(correlation of firefly luciferase active site flexibility and polarizability and bioluminescence color)
RN 43094-08-2 CAPLUS
CN 6-Benzothiazolol, 2-[4-(hydroxymethyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)

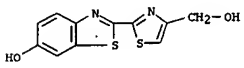


REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1979:519909 CAPLUS
DOCUMENT NUMBER: 91:119909
TITLE: Synthesis of firefly luciferin and structural analogs
AUTHOR(S): Bowie, Lemuel J.
CORPORATE SOURCE: Lab. Serv., VA Hosp., San Diego, CA, 92161, USA
SOURCE: Methods in Enzymology (1978), 57(Biolumin. Chemilumin.), 15-28
CODEN: MENZAU; ISSN: 0076-6879
DOCUMENT TYPE: Journal
LANGUAGE: English
AB The synthesis of luciferin and analogs is described using the synthetic approach of S. Seto et al. (1963) for mechanistic studies of firefly luciferase. The procedure involves the reaction of carbamoylthiocarbonylthioacetic acid with p-anisidine to form 4-methoxythiooxanilamide which is cyclized to form 2-carbamoyl-6-methoxybenzothiazole. This is converted to the corresponding nitrile, and this is condensed with cysteine.
IT 43094-08-2P
RL: PREP (Preparation)
(preparation of, for luciferase mechanistic studies)
RN 43094-08-2 CAPLUS
CN 6-Benzothiazolol, 2-[4-(hydroxymethyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1973:401911 CAPLUS
DOCUMENT NUMBER: 79:1911
TITLE: Synthesis of a new substrate analog of firefly luciferin. Active-site probe
AUTHOR(S): Bowie, Lemuel J.; Horak, Vaclav; DeLuca, Marlene
CORPORATE SOURCE: Sch. Med., Georgetown Univ., Washington, DC, USA
SOURCE: Biochemistry (1973), 12(10), 1845-52
CODEN: BICHAW; ISSN: 0006-2960
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB A new substrate analog of firefly luciferin was synthesized. The compound, 2-(6-hydroxy-2-benzothiazolyl)-4-hydroxymethylthiazole, (I) is an analog of dehydroluciferin, a competitive inhibitor of firely luciferase. The spectral and enzymic properties of this analog suggest that it should be an ideal active-site for firefly luciferase.
IT 43094-08-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 43094-08-2 CAPLUS
CN 6-Benzothiazolol, 2-[4-(hydroxymethyl)-2-thiazolyl]- (9CI) (CA INDEX NAME)



=> fil reg
COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	26.82	199.13

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.90	-3.90

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STRUCTURE FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4
DICTIONARY FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4

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TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and
predicted properties as well as tags indicating availability of
experimental property data in the original document. For information
on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

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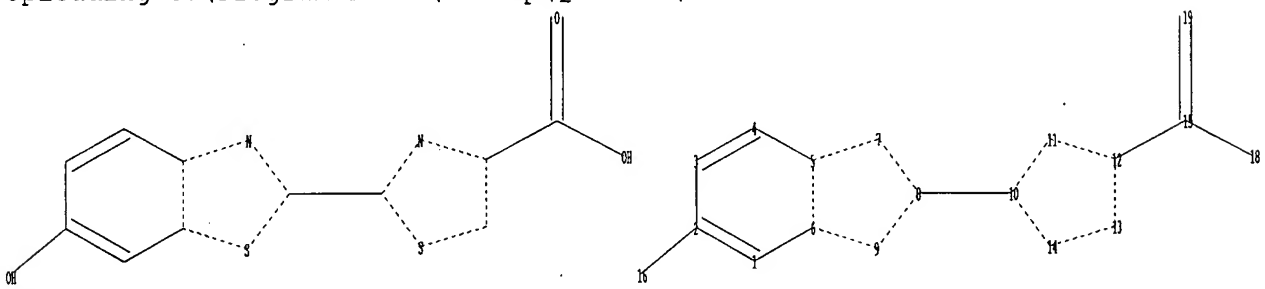


chain nodes :
15 16 18 19
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
2-16 8-10 12-15 15-18 15-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14

exact/norm bonds :
1-2 1-6 2-3 2-16 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13
13-14

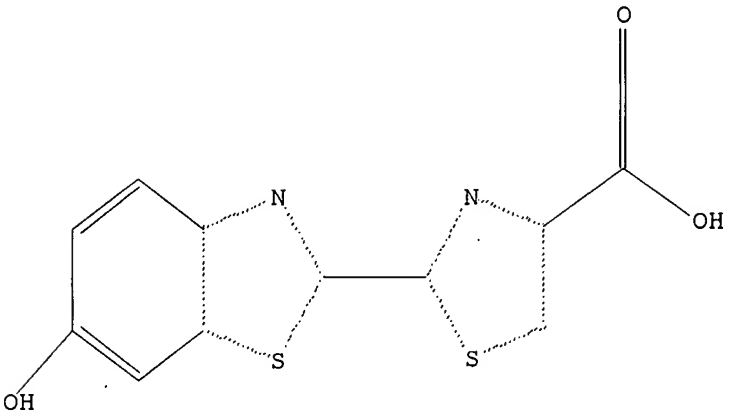
exact bonds :
8-10 12-15
normalized bonds :
15-18 15-19

G1:Cb,Cy,Hy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 18:CLASS 19:CLASS

L5 STRUCTURE UPLOADED

=> d
L5 HAS NO ANSWERS
L5 STR



G1 Cb,Cy,Hy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l5
SAMPLE SEARCH INITIATED 14:22:42 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 189 TO ITERATE

100.0% PROCESSED 189 ITERATIONS 5 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
                        BATCH **COMPLETE**
PROJECTED ITERATIONS: 2956 TO 4604
PROJECTED ANSWERS: 5 TO 234

L6 5 SEA SSS SAM L5

=> s l5 full
FULL SEARCH INITIATED 14:22:45 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4492 TO ITERATE

100.0% PROCESSED 4492 ITERATIONS 33 ANSWERS
SEARCH TIME: 00.00.01

L7 33 SEA SSS FUL L5

=> fil caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	172.10	371.23

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.90

FILE 'CAPLUS' ENTERED AT 14:22:47 ON 05 OCT 2007
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FILE COVERS 1907 - 5 Oct 2007 VOL 147 ISS 16
FILE LAST UPDATED: 4 Oct 2007 (20071004/ED)

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http://www.cas.org/infopolicy.html

=> s l7
L8 865 L7

=> fil reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.47	371.70

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.90

FILE 'REGISTRY' ENTERED AT 14:23:13 ON 05 OCT 2007
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4
DICTIONARY FILE UPDATES: 4 OCT 2007 HIGHEST RN 949197-90-4

New CAS Information Use Policies, enter HELP USAGETERMS for details.

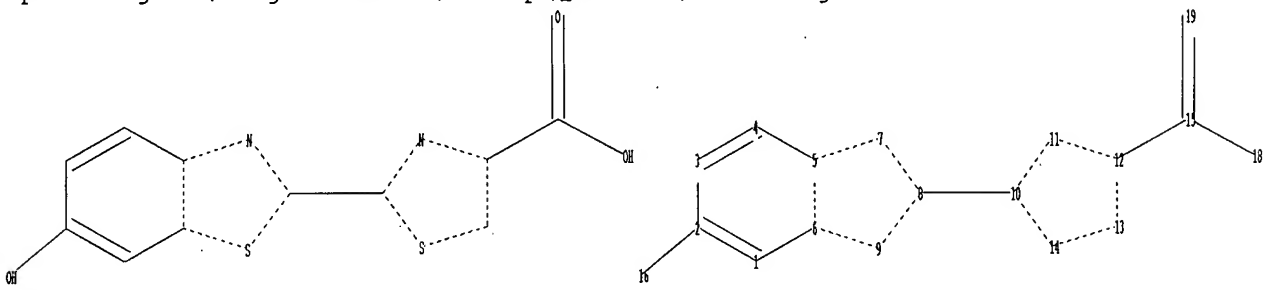
TSCA INFORMATION NOW CURRENT THROUGH June 29, 2007

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/support/stngen/stndoc/properties.html

=>
Uploading C:\Program Files\Stnexp\Queries\10665314g.str



chain nodes :
15 16 18 19
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14
chain bonds :
2-16 8-10 12-15 15-18 15-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14

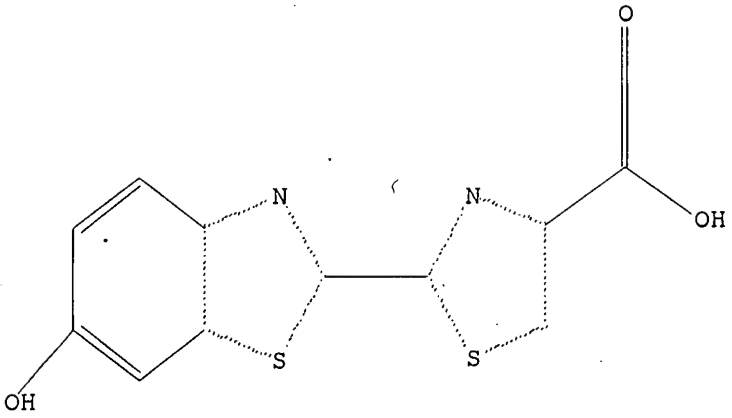
exact/norm bonds :
2-16 5-6 5-7 6-9 7-8 8-9 10-11 10-14 11-12 12-13 13-14
exact bonds :
1-2 1-6 2-3 3-4 4-5 8-10 12-15
normalized bonds :
15-18 15-19
isolated ring systems :
containing 1 : 10 :

G1:Cb,Cy,Hy,Ak

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:CLASS 16:CLASS 18:CLASS 19:CLASS

L9 STRUCTURE UPLOADED

=> d
L9 HAS NO ANSWERS
L9 STR



G1 Cb,Cy,Hy,Ak

Structure attributes must be viewed using STN Express query preparation.

=> s l9
SAMPLE SEARCH INITIATED 14:23:31 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 189 TO ITERATE

100.0% PROCESSED 189 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 2956 TO 4604
PROJECTED ANSWERS: 0 TO 0

L10 0 SEA SSS SAM L9

=> s l9 full
FULL SEARCH INITIATED 14:23:34 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4492 TO ITERATE

100.0% PROCESSED 4492 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

L11 0 SEA SSS FUL L9

=> fil caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 172.10 543.80

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE ENTRY TOTAL SESSION
CA SUBSCRIBER PRICE 0.00 -3.90

FILE 'CAPLUS' ENTERED AT 14:23:44 ON 05 OCT 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 5 Oct 2007 VOL 147 ISS 16
FILE LAST UPDATED: 4 Oct 2007 (20071004/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

```
=> s l8 and luciferin
          2841 LUCIFERIN
           286 LUCIFERINS
          2911 LUCIFERIN
                 (LUCIFERIN OR LUCIFERINS)
L12        823 L8 AND LUCIFERIN

=> log y
```

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.48	546.28

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-3.90

STN INTERNATIONAL LOGOFF AT 14:24:21 ON 05 OCT 2007